

U.S. Department of Commerce
National Institute of Standards and Technology
Gaithersburg, MD 20899

Certificate Number: 92-194
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National Type Evaluation Program
Certificate of Conformance
for Weighing and Measuring Devices

For:

Grain Test Scale
Digital Mass Transducer
Model: AL-5K/44 *
 n_{\max} : 50,000
Capacity: 5,000 x 0.1 g
Platform: 8" x 7"

Accuracy Class: II

Submitted by:

Denver Instrument Company
6542 Fig Street
Arvada, CO 80004
Tele: (303) 431-7255
Contact: Chuck Myers

Standard Features and Options

Automatic zero tracking
Semi-automatic zero
Motion detection indicator
External calibration capability
Printer interface

(See Page 2 "Sealing")

*Optional Model Designation: XL-5K/44 (identical to the AL-5K/44 except for the X prefix)

Temperature Range: +15 to 40 °C (59 to 104 °F)

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of Handbook 44, "Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: October 27, 1992

Original signed by Chief, Office of Weights and Measures

Issue Date: November 18, 1992

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Denver Instrument Company
Grain Test Scale
Model: AL-5K/44

Application: For use as a grain test scale, general purpose weighing scale, or jewelers balance when operated within the limited temperature range. For FGIS applications, this scale may be used for the categories of moisture and general grain scales. This device is limited for use in environments within the temperature ranges specified.

Identification: The model number and serial number are on an identification tag located on the left side of the scale.

Sealing: Access to a jumper that enables external calibration is located inside the scale. Two retaining screws can be wire security sealed preventing access to the calibration switch. To verify that the jumper is in the correct position, press the unmarked button above the semi-automatic zero button. If the display indicates "No Cal" or "Cal OK", then the jumper is in the calibrate position and its position must be changed before sealing the device for commercial use.

Test Conditions: The emphasis of this evaluation was on the device design and operation. A load of approximately one-half capacity was applied to the AL-5K/44 scale over 101,000 times. The scale was tested for accuracy periodically during this time. Additionally, the scale was tested for accuracy over a voltage range of 100 VAC to 130 VAC and over a temperature range of +15 to 40 °C. The results of these tests indicate the device complies with applicable requirements.

Type Evaluation Criteria Used: NIST Handbook 44, 1992 Edition

Tested By: G. Castro (CA)